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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	Α	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,549	549 12/28/2004		Alexander Wartini		263100US0PCT 2742	
22850	7590	10/17/2006		EXAMINER		
C. IRVIN MO	CCLELI	LAND	_	WITHERSPOON, SIKARL A		
OBLON, SPIV	'AK, MC	CCLELLAND, MA	IER & NEUSTADT, P.C.			
1940 DUKE STREET					ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314					1621	

DATE MAILED: 10/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/519,549	WARTINI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Sikarl A. Witherspoon	1621					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>08 Se</u>	<u>eptember 2006</u> .						
•	action is non-final.						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1,2 and 5-20</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2 and 5-20</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner	r.						
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a)⊠ All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
	3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of	of the certified copies not receive	a.					
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P						
Paper No(s)/Mail Date	6) Other:	b b common					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 8, 2006 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,2, and 5-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Decker et al (US 4,745,228) further in view of Ruzika (US 1,702,843).

The instant claims are drawn to a process for preparing a macrocyclic ketone by the direct cyclization of a dicarboxylic acid or dicarboxylate, in the presence of a heterogeneous fixed bed catalyst, in gaseous form.

Decker et al teach a process for preparing cyclic ketones by reacting a dicarboxylate over a solid oxide catalyst at temperatures of from 150 to 450° C (abstract). Catalysts that are particularly suitable include magnesium oxide, zinc oxide,

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titanium dioxide, and mixtures thereof. The reaction is carried out in the liquid or gas phase using a fixed bed catalyst (col. 2, lines 15-54). In a gas phase reaction, a mixture of the dicarboxylate and water are first vaporized, and then fed into the catalyst bed (col. 3, and examples 1-12).

The difference between Decker et al and the instant claims is that Decker et al teach the production of cyclic ketones having less carbon atoms than those of the instant claims, i.e., Decker et al do not produce macrocyclic ketones, or those having more than 7 carbon atoms. However, Ruzika et al teach the production of macrocyclic ketones using the same type of starting material, i.e., dicarboxylic acids or salts thereof, and the same type of catalyst, i.e., titanium dioxide.

The instant claims are therefore rendered prima facie obvious since a person having ordinary skill in the art, when presented with the combined reference teachings, would have been able to employ the process for making smaller ring-containing ketones taught by Decker et al, in processes for making macrocyclic ketones, simply by modifying the size of the carbon skeleton of the dicarboxylate starting material, as suggested by Ruzika et al.

Applicant's arguments with respect to claims 1, 2, and 5-20 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikarl A. Witherspoon whose telephone number is 571-272-0649. The examiner can normally be reached on M-F 8:30-6:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

saw

SIKARL A. WITHERSPOON PRIMARY EXAMINER

Sikar A. Witherson